

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Nathalie Guibert <nguibert@middletown.total.net>
Subject: 1920 Fullerphone FS
Message-ID: <1.5.4.16.19800103212919.1c2f5b0a@middletown.total.net>

Again, Bonjour
Another find in my Acres of Boatanchors:
One Fullerphone MK 111, complete with recess key
and collapsible handset with flap on mouthpiece,
made by W. D. Teddington SW.

One Manual.
A bientot
Andre Guibert

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: RE: 40 meter QRG
Message-ID: <19970403151914.AAC14515@LOCALNAME>

Hello gang,

Looked at 7027 tonight and that was very busy (0100-0200Z). Settled
down again on 7045 and established QSO with W5FRS Dennis. Very good
signals. Channel not nearly as busy. No spanish SSB. No "digital".

Will followup with report on both channels tomorrow night. I can
monitor both at the same time.

{ Stay tuned.

}

73,

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive,

Metairie, LA., 70001

ebjr@worldnet.att.net

Looking for: 860 tubes, WL-460 tubes

Butternut HF2V antenna, G-R test gear.....*

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: "Roberta J. Barmore" <rbarmore@indy.net>
Subject: >Blush<
Message-ID: <Pine.SUN.3.91.970402203702.79810-100000@indy1>

Hi, guys!

Sorry about being all mopey last night--hadn't been a good week at work or home, and I let it get outta hand. (Much better today--finally getting some of the horrible sat dish controls systems cooking after two storms in a row trashed 'em).

And I was **way** wrong about something: it was **UPS** trashed the 1-10, **not** the post office. Dog-gone it, the US mail has **never** smashed a package; Roadway's delivered a few that were split wide open **but** the chewy BA center was perfectly fine. You've got to wonder just what sort of built-in parcel-smashing procedure UPS is using! Anyhow, I am told it was insured, so maybe I can get 'em to fork over something for the extra time fixing their damage will take.

My **heartfelt** thanks to everybody that wrote. You guys are a lot more patient with me than I would be! You just can't beat Boatanchors--what a splendid group!

73,
--Bobbi

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: w0ozg@digitalexp.com (Schoepf, David)
Subject: Another late April fool
Message-ID: <19970402151712614.AAA88@LOCALNAME>

I wonder if anybody remembers an old article in Broadcasting magazine, fictionally written by "Ward Watt", that describes the effects of birds sitting on antennas?

He dubbed the effect "Imbirdance", and used the Avis as the unit of measure. After a lot of data regarding the variations due to species, and whether the bird was in the E or H plane, it ended with the description of an instrument to measure the effect. It was called a "Watt Bird Meter".

Anyone got one for sale? Certainly should qualify as a rare boatanchor!

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: dr.electron@juno.com
Subject: RE: ARC-52's
Message-ID: <19970402.140349.9494.2.dr.electron@juno.com>

Jim et al ;
Sorry, the supply of vintage electrons for those has dried up.

doc***

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Walter Dail <dail@CEBAF.GOV>
Subject: B&W 5100-B Mods
Message-ID: <1.5.4.32.19970402143100.00727884@jlab.org>

Hello BA folks,

I want to know if there is a collection of articles on modifications, or if anyone has a mod to the B&W5100-B that they would share. I know QST had a product review, but were there any other bits of information anywhere? Maybe it was just built right the first time!!! If you have a modification let me know. I am going to try to put together a list of these and make them available for all.

Thanks,
Walter Dail - KT4JA

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: dr.electron@juno.com
Subject: RE: Ballasts, electronic
Message-ID: <19970403.021607.4822.1.dr.electron@juno.com>

Gary et al;

If you can find a vendor that stocks them in a reasonable quantity, there should be little difference in price from that of magnetic units.

Actually, it costs less to manufacture the electronic types. I would recommend the GE/Motorolas, although I have had satisfactory results with units from Advance. Don't try to wire them "hot", like I do.

I get free replacements, remember. Plus, a careless move could blow you right off a ladder, possibly causing damage to adjacent boatanchor equipment.

Use a permanent marker and date code the ballast when you install it, in case you need a replacement later. The manufacturers are quite friendly in this respect. The field is highly competitive in making these, and at this stage, reputation is everything. I can't remember a failure in any units I put in, but quite a few were replaced for free, those dating from the first production runs, five or six years ago or so.

Be sure not to overwrite the factory I.D. strip, which is sputtered on the case when manufactured. Be sure the ground is tight as mentioned, and that all mechanical surfaces are fastened tightly (the most common cause of fixture hum is the thin sheet metal housings, which are often tapped together with mallet or similar tool).Use premium lamps. It's

well worth the cost ! By using an SPX type lamp, you can avoid the noisier, and less desirable "energy saving" lamps and ballasts, and the color produced is much more pleasant. 3500K is a good all - around value. For reliability, I use only GE lamps. The absolute finest is the Staybright XL - F40 SXL - SP 35 (48" rapid start). A GE/Motorola or Advance ballast (electronic) should cost \$22 -\$28 or so. A bit more than a "residential" type, but those are junk. W W Grainger, Johnstone Supply, etc. sell zillions of them, and might well deal "over the counter" to a ham. If not, try to go through a friend who has a business.

Regards, Rich P

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: jmilller@teleteam.net (Jay H. Miller)
Subject: CCA AM night- 2 weeks & Counting
Message-ID: <v01540b00af698c5bda7f@[199.34.24.16]>

Just a reminder that the Collins Collectors Association's AM Theme Night will take place on Thursday, April 17 on 3875kc about 8:00pm CDT. Many stations will be on the air including high-muckty-mucks of AM International and WOCXX from the Collins ARC in Cedar Rapids. Several strategically placed KW-1s will blow a hole in the ether to kick things off. All licensed amateurs are welcome to participate-- you don't have to run Collins AM gear. For those of you who run AM, we certainly hope you'll tune in for this exercise in Boatanchoring at its finest!

73

***** ##### *****
Jay H. Miller, KK5IM Dallas, Texas
The Pocket Guide to Collins Amateur Radio Equipment
AMI#846 Collins Collectors Association
E-Mail: jmilller@teleteam.net
Visit My Home Page: <http://www.teleteam.com/~jmilller/>
***** ##### *****

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: don merz <71333.144@CompuServe.COM>
Subject: Eimac Copies Available
Message-ID: <970403141202_71333.144_DHB56-1@CompuServe.COM>

Allright, allright ALLRIGHT ALREADY!!

Please stop filling my mailbox....I should have known better than to

post that Eimac literature to this group.

Howzabout I just make copies for all who are interested (the originals are sold, of course). Here's the deal: I will make clean photocopies of all the Eimac literature and send it to you for \$6.50 prepaid to Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228. THERE IS NO NEED TO EVEN REPLY TO THIS E-MAIL. Just send a check and I will send you the copies.

In case you mis-remembered it, here's the description again:

Original Eimac Literature, 1948 - 1954. All this stuff was authored by K6BJ, John Reinartz for Eimac as promotional material. Most of these are short (4-6 pages) and hand typed. All are dated within 1948-1954. The set includes:

- The Tuna Fish Can RF-Bridge Voltmeter
- Screen and Grid Modulation of Eimac Tetrodes
- The Reduction of Harmonic Power Output in Amateur Transmitters
- A Carrier level and Modulation Indicating Meter
- Pi Network Shortcuts
- A Capacity Antenna For Vertical Heights Less than 1/4 Wavelength
- Coupling Circuits Between Stages and To Antenna
- Simple Tube Calculations
- Tetrode Neutralization Considerations
- Untitled (but the subject is audio transformer selection)
- Conversion Factors For Power Amplifier Triodes and Pentodes
- Increased Audio Without Splatter
- A Further Explanation of the Paper "Increased Audio Without Splatter"
- Application Bulletin #4: Class C Amplifier Calculations. B&W copy of a color 4 page brochure. The Eimac 450TL is used as an example. 1948
- Application Bulletin #5: Tube Performance Computer (sic). B&W copy of a color 4 page brochure with translucent vinyl insert overlay to be used "with constant current curves to obtain plate, grid and screen current values; also output and driving power." 1952

BUT WAIT! THERE'S MORE !! You also receive

BUILD YOUR OWN TRANSMITTER, A GUIDE FOR DESIGNERS. This 16-page Eimac booklet has everything from a 250 watt peashooter to a 10KW master blaster. Full parts lists, detailed text, some photos, schematics and lots of tips. All Amplitude Modulation, of course. Also includes designs for associated audio equipment--everything for the well-equipped homebrew AM radio station. Very classy. Dated 1947.

DON'T DELAY! SEND FOR YOURS TODAY!

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: don merz <71333.144@CompuServe.COM>
Subject: Eimac Literature FS
Message-ID: <970402173038_71333.144_DHB84-1@CompuServe.COM>

For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

Original Eimac Literature, 1948 - 1954. All this stuff was authored by K6BJ, John Reinartz for Eimac as promotional material. Most of these are short (4-6 pages) and hand typed. All are dated within 1948-1954.

Set One: \$15 postage-paid. These are all originals. Includes the following:

- The Tuna Fish Can RF-Bridge Voltmeter
- Screen and Grid Modulation of Eimac Tetrodes
- The Reduction of Harmonic Power Output in Amateur Transmitters
- A Carrier level and Modulation Indicating Meter
- Pi Network Shortcuts
- A Capacity Antenna For Vertical Heights Less than 1/4 Wavelength
- Coupling Circuits Between Stages and To Antenna
- Simple Tube Calculations
- Tetrode Neutralization Considerations
- Untitled (but the subject is audio transformer selection)
- Conversion Factors For Power Amplifier Triodes and Pentodes
- Increased Audio Without Splatter
- A Further Explanation of the Paper "Increased Audio Without Splatter"
- Application Bulletin #4: Class C Amplifier Calculations. Color 4 page brochure. The Eimac 450TL is used as an example. 1948
- Application Bulletin #5: Tube Performance Computer (sic). Color 4 page brochure with translucent vinyl insert overlay to be used "with constant current curves to obtain plate, grid and screen current values; also output and driving power." 1952

Set Two: \$7.50 postage-paid. Includes a mix of originals and photocopies.

Anything not marked "(original)" is a copy. Includes the following:

- The Tuna Fish Can RF-Bridge Voltmeter (original)
- Screen and Grid Modulation of Eimac Tetrodes (original)
- The Reduction of Harmonic Power Output in Amateur Transmitters
- A Carrier level and Modulation Indicating Meter
- Pi Network Shortcuts
- A Capacity Antenna For Vertical Heights Less than 1/4 Wavelength

Coupling Circuits Between Stages and To Antenna (original)
Simple Tube Calculations (original)
Tetrode Neutralization Considerations (original)
Untitled (but the subject is audio transformer selection) (original)
Conversion Factors For Power Amplifier Triodes and Pentodes (original)
Increased Audio Without Splatter
A Further Explanation of the Paper "Increased Audio Without Splatter"
Application Bulletin #4: Class C Amplifier Calculations. B&W copy of
color 4 page brochure. The Eimac 450TL is used as an example. 1948
Application Bulletin #5: Tube Performance Computor (sic). B&W copy
of color 4 page brochure and insert overlay to be used "with constant
current curves to obtain plate, grid and screen current values; also
output and driving power." 1952

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Ken_Warren@beavton.k12.or.us (Ken Warren)
Subject: Re: Eimac Literature FS
Message-ID: <1684336606.291955444@beavton.k12.or.us>

Hi Don, I would like to have either one of the sets of Eimac literature. Let me
know if one is still available and I will have a check in the mail.
Thanks.

Ken Warren K7RPX

Ken_Warren@beavton.k12.or.us
KenwK7RPX@worldnet.att.net
--
Beaverton School District
Beaverton, Oregon

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Glenn Finerman <GFINER@nms.com>
Subject: For Sale
Message-ID: <s3428461.048@nms.com>

FOR SALE = Heathkit DX-60B and HG-10 VFO.
Very close to mint condition EXCEPT two of the smaller knobs
on the DX-60B are cracked. The rig works perfectly. No scratches,
dents or dings. Very clean example of this classic transmitter & VFO.
No modifications (even has original RCA RF output connector.
With manual copy, \$90.00, UPS shipping included.

73.....Glenn N2BJG gfiner@nms.com

WANTED = Collins 32S-3, 75S-1
Drake 2C/2CQ, 2NT, TC-6
Tram Titan II

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Denny Gilbertson" <gilbertson@ics.uwex.edu>
Subject: FPM-300 Opinion
Message-ID: <MAILQUEUE-101.970403073516.512@ics.uwex.edu>

On Wed 4-2 David Nance asked about the FPM-300.

I owned and used the FPM-300 both mobile and fixed in the 70's. I liked the rig. It was pretty straight forward operationally. Mostly solid-state but used a 12BY7 driver and a single 6KD6 final as I recall. Made contact with Antarctica on 40 ssb, bare-foot to a trap vertical. I sold it to buy an Atlas 210X for easier mobile use but I think I made more contacts with the FPM-300.

The rig had a few draw-backs though. The 40673 mosfet front end was susceptible to static charges from the antenna and I replaced mine about three times. This is a weak point. The printed circuit board connections and wiring were somewhat fragile but only became a problem with repeated handling as a result of replacing the mosfets.

Depending on price, it could be a good rig for you. I would likely buy one if it worked and was in good shape. And the price was right of course. I haven't seen any around here in WI lately though.

Denny Gilbertson
K9JCZ
gilbertson@ICS.uwex.edu

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: Laird_Tom_N@hpmail1.90.deere.com
Subject: FPM-300 Opinion
Message-ID: <H00005a004d45ea2@MHS>

> Denny G. talked about the FPM-300.

> The rig had a few draw-backs though. The 40673 mosfet front end was
> susceptible to static charges from the antenna and I replaced mine

> about three times. This is a weak point.

>

I used to replace the 40673 in the FPM-300 and the 3SK40's in the
FT101's with diode protected 3N201 or 3N211's. This seemed to help.

Tom Laird WC9M Moline, IL

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: dr.electron@juno.com
Subject: RE: Fullerphone
Message-ID: <19970402.140349.9494.6.dr.electron@juno.com>

Guido ;

Do the specs you cited require the use of a balanced pair ? This
sounds very high - tech, like modern current mode data transmitter /
receiver setups, with their high noise immunity. Interesting !

"doc" /***

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Lenox Carruth <carruth@swbell.net>
Subject: Re: Fullerphone
Message-ID: <3342DDA4.23B9@swbell.net>

Sounds like a TG-5-(*) to me.

--

Lenox

-
Dr. Lenox Carruth, Jr., P.E.

Dallas, Texas

Carruth@swbell.net

Collector of WW-II Communications Equipment and Memorabilia

Wanted: Excellent TCS-14 Transmitter and Mounting Plate, TBX, LS-3

--

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: BEN NOCK <106312.1035@compuserve.com>
Subject: Fullerphone
Message-ID: <199704021804_MC2-13AE-6C08@compuserve.com>

>Greetings, Troops.

>I'm not too hip on what British surplus gear is all about, and I was just
>offered the opportunity to buy an unissued gizmo called a Fullerphone.

Anybody

>know what this thing is? Is it some kind of field telephone?

>Inquiring minds wanna know...

-----reply-----

Yep, a field phone, very popular in the N African theater,
land line gizmo, with a WT8 key on it, plus buzzer etc,
you could get far better comms with it than normal
ff.

Ben G4BXD

MILITARY WIRELESS IN THE MIDLANDS

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997

From: "Edward J. Zeranski" <ejz@nosc.mil>

Subject: GI Heathkit 6'er for \$1250 ??

Message-ID: <2.2.32.19970402155214.006d80f8@marlin.nosc.mil>

Your article on the Mil HeathKit was posted yesterday so I at first
took it as an April fooler then remembered the sets we had for a while on
the boats. Hey!....1964-1966 time frame and wondered...just maybe? My post
was real, as an ETSN I had to fix the damn things, but it was 30+ years ago.
Now I gotta ask was it a fooler or not? By the way the radios sucked.

Ed Zeranski ejz@marlin.nosc.mil, work

ezeran@cris.com home

Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!

This is a private opinion or statement and is nobody's fault but mine. No
person, employer, or govt. should try to take credit for it!

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997

From: n5off@w5ddl.aara.org

Subject: Govt R-390 Auction

Message-ID: <2806@w5ddl.aara.org>

I saw an announcement that Uncle Sam will auction several lots of R-390's on 4/10 at St. Julian's Creek, VA.

It is Sale no. 24-7013, lots 0225, 0226, 0227, and 0228.

The info line is 757-396-0136. <== Is this a real area code?

Anyway, if you are in the area, you can inspect first hand. This is an on-site deal I believe.

That is all I know about it.

73
Tom

p.s. I've got no idea how big a "lot" is. It didn't say.

73 Tom

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: dr.electron@juno.com
Subject: RE: Grounding
Message-ID: <19970402.140349.9494.5.dr.electron@juno.com>

Ron;
Sounds like a " BA " kind of grounding system !
Is the system in turn bonded back to the grounding electrode of the service? If not they could "talk" to each other. A #6 awg cu bond would be code for either a 100 Or 200 A service. If the service equipment is new, or even if it's not, I always re-torque everything before installing, as the equipment gets shook up pretty well in transit. A good idea as well is to power down and retighten all connections after a while, they either just don't want to stay tight, of won't loosen
up at all when needed. Murphy rules !
"doc"

P.S. I think the true statement of Murphy's Law is :

Everything is wrong, or else you have missed something.
R./

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997

From: mack@mails.imed.com
Subject: Hallicrafters ?? prices
Message-ID: <9703038600.AA860090158@mails.imed.com>

Hey Y'all:

A buddy was telling me last night that he has an SX-99 (not a Halliscratcher guy so I'm not sure) and a large companion speaker for it. He describes the radio as currently working but about a 6 for cosmetics. Probably needs a little TLC.

Any ideas how much it's worth? What speaker is he likely to have and is it worth a bunch?

If anyone is interested I may take it to Belton if he decides to sell.

Ray Mack
WD5IFS
mack@mails.imed.com
Friendswood (Houston), TX

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "JOHN A. KING (WA1ABI)" <JAK@SUD2.ED.RAY.COM>
Subject: Have Kenyon mod xfmr info
Message-ID: <01IH9KUIRREQ8WW5CQ@SUD2.ED.RAY.COM>

Someone was looking for Kenyon mod xfmr info recently. I just found the terminal connection sheet for Kenyon T-495 and T-496.

Available for a large SASE... e-mail for address.

73,

John King WA1ABI

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: mack@mails.imed.com
Subject: Heath Paint
Message-ID: <9703038600.AA860091345@mails.imed.com>

Hey Y'all:

I remember from some time last year that someone suggested spraying a Heath cabinet from a significant distance to get the kinda rough look to the paint. I tried it and it works great!

I made the mistake of trying to clean the cover for an HG10 VFO in the dishwasher on the bottom shelf near the high strength stream of water. That combined with the Cascade ate the paint right off one side of the cabinet! At least the smoke residue is gone :<) I saw Ben Hall mention a while back that Cascade actually works as a paint stripper. Wish I had seen that post first! It **was** an education in painting though and there **were** a few rust spots that would have needed tending to. Guess there is always a BA silver lining.

Here are some of the things I found during the process:

- 1) There are 4 different shades of green on 4 different Novice type boxes (2 HR10B, 1 DX 60B, 1 HG10B).
- 2) there are 3 different styles of "splatter" finish on these boxes
- 3) Krylon Satin green is a pretty close match for the dark green
- 4) Using the far away method wastes a lot of paint!

I'll have to try the Testors paint to see how it compares for match.

The finish on one HR10B and the re-painted HG10B are sort of a small kinda pointy bump finish. The SB201 here at work, the other HR10B, and the DX60B have various amounts of little round soft shaped splatter bumps. Obviously they had several different processes for painting during the same time frame.

Ray Mack
WD5IFS
mack@mails.imed.com
Friendswood (Houston), TX

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: dr.electron@juno.com
Subject: RE: IMBIRDNANCE
Message-ID: <19970402.123431.10030.1.dr.electron@juno.com>

Question:

Does " Imbirdnance " exhibit similar qualities to voltage, such as "drop " ?

A. Fool***

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Ho4bart@aol.com
Subject: Re: Inquiry
Message-ID: <970402095835_249155470@emout05.mail.aol.com>

In a message dated 97-04-01 15:30:50 EST, carruth@swbell.net (Lenox Carruth) writes:

<< I suspect that both of these would be almost impossible to find today. >>

no, there are a lot rarer sets traded. the difficult thing is the loop, your chance of finding one approx = to your finding a meteorite with traces of life forms.

from what i have seen, these were still used for training up to maybe 40/41, and in regular use with the Philippine army, til overrun. oh by the way, one ham reported using one in training, with the loop ant (the only coil in the transmitter, a single type-10) tapped to feed a wire antenna for longer range. battery clamps were used to tap the appropriate impedance off the loop. with the coil in effect right out in the open, what a wonderful stability this set must have had!

hue miller

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Rhett T. George" <rtg@ee.duke.edu>
Subject: JAN CBSC-6700
Message-ID: <199704032030.PAA02788@washington.ee.duke.edu>

- Greetings -

Still trying to reduce the entropy in the loft or, at least, reduce the number of boxes (contents unknown). I did come across a cache of vacuum tubes, I think. The id is JAN CBSC-6700. I thought it was a 7 pin, no, 9 pin, uh, no, the darn thing has 2 circles of pins totaling 26. The number is stamped on the cylindrical magnet which surrounds the tube. Each end of the magnet is covered with a bakelite or hard rubber cover, the top one covering the entire top of the tube. Therefore, it is not a display tube. On removing the cover, I see the entire top is coated with getter on the inside. Also, 419 is handwritten on the top. Cement to hold the magnet to the tube is quite visible. I should like to hear from anyone knowing what this critter does. The big clue is that it was made by Burroughs. My guess is that it is a magnetically-steered shift register, made long ago for the assessment of 1's and 0's. Knowledge and/or guesses from you good BA folk will be appreciated.

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: dr.electron@juno.com
Subject: RE: Juvenation
Message-ID: <19970403.061052.10278.1.dr.electron@juno.com>

The following material is copyrighted 1978 by the California Historic Radio Society.

REJUVENATION OF VACUUM TUBES

Author: Lane S. Upton

< Permission to reproduce this here has been granted>

With the ever increasing scarcity of old tubes, it is becoming more important that we try to save as many as possible. Over the past two years I have been experimenting with the rejuvenation of these older tubes. This work has been based primarily on present day techniques used at Eimac and on data given in various books published in the 1920's Using the methods described herein, I have had approximately 85% success in returning inactive tubes back to usable transconductance. The failures have primarily been due to filaments being burned out during application of the excessive voltages required. The tubes which failed either had filaments that had been weakened from long hours of operation, or were marginal at the weld joints. None of these failures were opened for investigation as they are still valuable for display purposes.

The primary failure mode of these older tube types is a loss of electron emission from the filament or cathode. With the wide inter electrode spacing used in these tubes, a short is very rare except in the case of a broken filament wire where the oxide has flaked from the filament or cathode and has touched the grid. The loss of electron emission typically shows up in the tube tester as a weak tube or one which will not raise the meter needle. If a tube tests normal and does not show any erratic indication on the test meter, no attempt should be made to improve it by rejuvenation.

The equipment required for rejuvenation is relatively simple. In addition to a tube tester, a variable filament supply is required with a meter of reasonable accuracy for measuring the applied voltage. In place of a separate filament supply, a filament voltmeter may be

connected to the tube tester and the filament voltage switch and "line" adjustment used for voltage control. For the thoriated tungsten filaments it is preferable that no grid or plate voltages be applied during rejuvenation. With the oxide emitter tube, voltages should be applied during rejuvenation. The removal of plate and grid voltages can be readily accomplished by the construction of an adapter socket with filament connections only. The voltage applied to the filament during rejuvenation must be carefully controlled to the values given. The accompanying graph shows the results of various voltages applied to a thoriated tungsten filament during rejuvenation. It shows that a voltage lower than the recommended value will eventually result in a fairly good tube, while too high a voltage will result in a tube which will remain weak.

Emission loss is generally due to contamination (poisoning) of the emitting surface. The vacuum and the original outgassing of the elements in these older tubes was not near the present day standard, therefore, they contain considerable residual gases. The poor emission usually is the result of either the emitting surface being poor in storage, or, immediately upon being heated the filament/cathode was poisoned by the residual gases which had condensed on the emitting surface. The function of rejuvenation is to drive off these condensed gasses and to replenish the electron emitting layer on the surface of the filament/cathode.

Vacuum tubes have essentially three basic types of emitters. These are: pure tungsten, thoriated tungsten, or a directly or indirectly heated oxide. The type of emitter in a given tube can be determined by its operating color at rated filament voltage. The pure tungsten filament operated bright white, the thoriated tungsten filament runs orange to yellow, while the oxide emitter operates in the dull red region.

The pure tungsten filament needs little rejuvenation as its operating temperature makes it self-cleaning. Operation at 110% of rated filament voltage for up to 30 minutes should clean them up. This type of filament was used in such tubes as the UV200, UV201, and

in many types of transmitting tubes.

The thorated tungsten filament is probably the major one to be dealt with by the collector. This filament is a composition of tungsten and thorium with the tungsten acting as the heat source while the thorium is the emitting source. This filament was used in tubes such as the UX200A, UX201A, UV99, UX99, UX120, UX210, and in many of the later (and present day) transmitting tubes. Two methods are used for rejuvenation of these filaments. If a tube is only weak or gives erratic readings, the first procedure should be tried. If a tube is completely dead (but the filament lights up) then the second procedure should be used. 1) operate the filament at 135% of the rated voltage for 30 minutes. Test the tube, and if the tube has improved but is still not to rating, continue for another hour. If at the end of this time the tube is still not up to specification, use the following procedure. 2) In this procedure the filament is run white hot to strip the emitting surface completely clean, then the surface is restored using the above procedure. Operate the filament for 15 to 20 seconds at 350% of rated voltage with no other voltages applied. Then, operate the tube under the conditions given in the first procedure. Test the tube every 30 minutes, and if the tube is not up to rating after two hours, it has reached the end of its useful life. Note: Do not attempt to test the tubes at the end of the first step, as there will be no emission.

Typically the oxide emitter consists of a layer of strontium and/or barium oxide deposited on a heated surface. In the directly heated type, this layer is placed directly on the surface of the filament. Typical of this type are Western Electric tubes such as the VT-1 and VT-2 and the WD11, UX226, and UX280. The indirectly heated cathode is the more modern type of emitter consisting of a metal sleeve with the oxide layer on the exterior and the filament mounted in the interior. The indirectly heated cathodes include the ac heater types such as the 24, 27, and the Kellogg tubes. These tube types should initially be operated at the rated filament voltage for at least

one hour and then checked for quality and stability. If they still are not satisfactory, then the following procedure should be used. With the tube in the tube tester, increase the filament voltage to 120% of rating while carefully watching the plate current or tube tester meter reading. The meter reading will slowly increase, hit a peak, then start to decrease. At the point of maximum reading, reduce the filament voltage back to rated value. Continue to operate the tube at rated filament voltage for at least four hours, then test. When two tests spaced one hour apart provide the same reading, the tube is rejuvenated as much as possible.

The rejuvenation of the old tubes can be very rewarding especially considering that some of the would otherwise be in the junk box. It does take some time for this work as there are no short cuts, but it is something that can be done without constant attendance. While not all the tubes will come up to 100% or rating, at least many tubes can be brought up to the point of being usable. As these old tubes become more scarce this may be the only way we will have of getting the old sets operating.

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CHRS
PO Box 31659
San Francisco, CA 94131

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: BEN NOCK <106312.1035@compuserve.com>
Subject: LF10 audio filter wanted
Message-ID: <199704031225_MC2-13B6-1F6F@compuserve.com>

Having now got the facts right, its the audio filter for the LF10 unit that is required, the small plug in module.

If anyone has a spare, please let me know.

Thanks and cheers, Ben G4BXD.

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: BOB RAGAIN <RAGAIN@hubvx6.sedalia.wireline.slb.com>
Subject: Looking for 180L3 tuner relays
Message-ID: <970402084034.32e0592a@hubvx6.sedalia.wireline.slb.com>

Hello BA Folks,

I have a Collins 180L3 automatic antenna tuner from which a previous owner pulled all the plugin control relays. Luckily all the really nice parts are still there. Do any of you have a set of relays available, maybe from a 180L3 which has been parted out for the nice vacuum relay or roller inductors?

I would like to get this tuner going if relays can be located. I even found a 400 Hz 120v dynamotor to supply that aircraft voltage requirement!

Thanks for any assistance. (Private email with cost and availability please)

Bob

Bob Ragain WB4ETT Littleton, CO

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Edward J. Zeranski" <ejz@nosc.mil>
Subject: Manuals URL
Message-ID: <2.2.32.19970403162610.006aead0@marlin.nosc.mil>

Perhaps it is old news but this page has some online schemos and manuals including the Solar condenser checkers, some tube testers, HQ-160 and Halli S27. Not a lot but well done with other old radio links.

Ed Zeranski : ejz@marlin.nosc.mil, work / ezeran@cris.com, home
Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!
This is a private opinion or statement and is nobody's fault but mine.
No person, employer, or govt. should try to take credit for it!

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Edward J. Zeranski" <ejz@nosc.mil>
Subject: Manuals URL
Message-ID: <2.2.32.19970403170258.00706620@marlin.nosc.mil>

Perhaps it is old news but this page has some online schemos and manuals.

Sorry Folks!! Shouldn't try doing two things at once! Here is the site:

<http://207.31.114.33/NostalgiaAir/Manuals/Index.htm>

Ed Zeranski : ejz@marlin.nosc.mil, work / ezeran@cris.com, home
Wooden Boats, Tube Receivers, Rusty Old Trucks, The Good Stuff!
This is a private opinion or statement and is nobody's fault but mine.
No person, employer, or govt.should try to take credit for it!

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: k0wo@juno.com (BIGHORN MUSEUM OF AMATEUR RADIO)
Subject: Re Museum BA List
Message-ID: <19970402.161203.8151.6.K0W0@juno.com>

Let me save some time here..... The 302C-3 and
the Gonset Sidewinder have been sold.
Tnx for all the inquiries.

Don, K0PV
@ The Bighorn Museum
(719) 763-2220

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: "David M. Nance" <dmnance@roanoke.infi.net>
Subject: Need Advice: Hallicrafters FPM 300 MkII
Message-ID: <334310DD.31AE@roanoke.infi.net>

I have a chance to purchase a Hallicrafters FPM 300 Mk II transceiver
that is like new. I remember when this unit came out that Hallicrafters
was on the decline; however, I never knew anyone who had one.

Can anyone who has had experience with this rig give me an opinion.

Thanks,

David - WB4SSE

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: kim herron <kherron@voyager.net>
Subject: Need VF-1 cabinet.
Message-ID: <199704022306.SAA24817@vixa.voyager.net>

Hi Gang,

I'm finally getting around to restoring some of my own stuff again. What I need is a cabinet for a Heath VF-1 VF0. It goes with my DX-40. I would prefer a brown one instead of a grey one (they made them either color), but either will do. I'll even take a junker complete unit if that's possible.

Let me know here.

Kim Herron

kherron@vixa.voyager.net (return address)

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: Keith Heitzmann <kk5fe@communique.net>
Subject: Need- Schematic/manual for Eico model 730 modulator
Message-ID: <2.2.16.19970403154626.23a7a258@mail.communiquen.net>

Hi all,

I just picked up an Eico 730 modulator-driver, fairly dirty, but should clean up well. I could use the schematic and manual (if it had one) a copy would be fine.

Will be glad to pay for copy plus postage.

Thanks in advance,

Keith KK5FE

-----Keeper of all that I buy-----
-----AMI# 837-----
-----Visit my Vintage Radio Web Site-----
-----http://www.communiquen.net/~kk5fe-----

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997

From: Conard Murray <ws4s@InfoAve.Net>
Subject: New Free Glowbugs site open for business
Message-ID: <2.2.32.19970403162806.00dcd89c@infoave.net>

Hello All,
I have gotten permission from Bob, NA4G, to open the floodgates to the new GB server. If all goes as planned, we will be moving again shortly, but we will move the subscriber list over to the new machine.
To subscribe, send a one-line message to:

majordomo@csres2.cropsci.ncsu.edu

and put this in the body, making sure to fill in the appropriate spaces:

subscribe glowbugs (myname) (mycall)

and you will be approved shortly.

Many thanks to all who have offered server space and to the beta-testers and especially to Bob and Bob for getting the software and hardware going.

73,

de Conard WS4S

Conard Murray WS4S Glowbugs listowner ws4s@infoave.net
217 Dyer Avenue Cookeville, TN 38501 615-526-4093
Member Arizona ScQRPions QRP-L #993 Friend to anything TCS or GRC-19
<>< Wise men still seek Him ><>
WIMPS: Qs=000 30m=0 17m=0 12m=0 States=00/00/00

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Richard Post <POST@ouvaxa.cats.ohiou.edu>
Subject: Photo of RMCA AR-8509 F.C.C., recognize it?
Message-ID: <A5323ZWTXHN5DT*/R=OUVAXA/R=A1/U=POST/@MHS>

Still looking for information on this receiver. Have pictures at:

<http://ouvaxa.cats.ohiou.edu/~post/PIX/RMCA.htm>

It is a rack-mounted Radiomarine Corporation of America (complete with the RCA logo) AR-8509 F.C.C. Receiver. Front panel says it covers 3-6 Mc but there is no tuning dial and no obvious tuning cap. Has a very large 5 Mhz crystal under the chassis. Anybody recognize this or know what this unit was used for? WWV frequency and time? A fixed frequency receiver? Some kind of FCC requirement such as frequency accuracy?

The controls are RF gain, AF gain and Tone (top center, which connects to

what looks like an IF transformer housing, assume BFO tone.). One of the switches is for BFO on-off. Has 11 octal tubes, mostly metal, as well as three large IF-transformer-like housings on the rear of the chassis. Have not yet tried to power it up.

73, Rich KB8TAD <rpost1@ohiou.edu>

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>
Subject: Re: RCA AR-88 (not AVR-100)
Message-ID: <Pine.A32.3.91.970402091434.33437C-1000000@ppdu.nrl.navy.mil>

Scott,

I have a collection of AR-88 articles from British magazines that I will copy and send if you send me the following: A 9 x 12 inch envelope with ten 32-cent stamps stuck to the upper right corner and your address written in the middle. The self-addressed-stamped-envelope is a good reminder for me to mail the stuff out.

Sincerely,

Paul Bernhardt, KF4FOR
5704 Ridge View Dr.
Alexandria, VA 22310

On Wed, 2 Apr 1997, Brigham, Scott (MN10) wrote:

>
> Hello again folks. I asked the list for information about an RCA
> AVR-100 receiver. Well, it turns out that I had the model number
> ALL WRONG! It is actually an AR-88. Thanks to Doug Arntson
> and Al Klase for helping me on that score. So, now armed with
> the ACTUAL MODEL NUMBER of the receiver I have, I'd like
> to again ask if anyone can shed some more light on this beast.
>
> Scott Brigham (K0ZI)
> St. Paul, MN
> scott.brigham@hbc.honeywell.com
>

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Ho4bart@aol.com
Subject: Re: RCA AVR-100

Message-ID: <970402104220_-568787780@emout12.mail.aol.com>

In a message dated 97-04-01 14:51:22 EST, Scott.Brigham@HBC.honeywell.com (Brigham, Scott (MN10)) writes:

<< I just recently came across a receiver, allegedly an RCA AVR-100, >>

you mean probably an ACR####, not AVR.
hue miller

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: dr.electron@juno.com
Subject: RE: RE ARC Premiums
Message-ID: <19970402.140349.9494.1.dr.electron@juno.com>

Hue,
We use a scamming grotonic chronoreversatron, in conjunction with a deductive Jigopascalimometer, set on max. Results vary.
The "doc"/***

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Guido ROELS <on6rl@tornado.be>
Subject: Re. Fullerphone
Message-ID: <199704022130.WAA26761@tornado.be>

Hello BA,
A Fullerphone is British service Morse telegraph instrument, invented in 1915 by a Canadian Captain A.C.Fuller and still in use in WWII.
It is essentially a DC Morse telegraph with high sensitivity. Signals can be send and received by the same instrument. When sending, a very small direct current flows throug the line into the receiver. A readable signal is produced with a current of only 0.5 microampere.
Signals can not be overheard by induction or earth leakage and can be tapped only by the direct connection of a simular instrument to the line.
The normal range for reliable communication under field conditions is 25 to 30 miles.
A more detailed technical description can be found in The Old Timer's Bulletin, November 1989, in a article by PA0PCR, Louis Meulstee.
Greetings to all de Guido, ON6RL.

e-mail: on6rl@tornado.be
PBBS: ON6RL@ON6AR

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: Karl-Arne =?ISO-8859-1?Q?Markstr=F6m_08?= 6017171
Subject: Re: Re: Tube type 958-A lore
Message-ID: <D137ITX23PFY*/R=A1/R=MRGST/U=KAM/@MHS.stoa.mobile.telia.se>

^aIn a message dated 97-04-01 15:38:20 EST, carruth@swbell.net (Lenox Carruth)
^awrites:

^a

^a<< World War II cavity magnetrons operated with no filament voltage. It
^a was only used for starting.

^a -- >>

^a

^aso they ran hot, which maintained emission? hue

Actually, this cathode heating comes from "back-bombardment"
by electrons that don't reach the anode in the right phase to be caught, but
are diverted back at high velocity to the cathode.

This effect is dramatic in cavity magnetrons, but can be observed in all
UHF power tubes, where the phase shift effects due to electron inertia
are becoming noticeable with increasing operating frequency.

Users of the 4X150/4CX250 tetrode family in UHF power amplifiers
are supposed to take heed of the filament voltage vs frequency
derating information in the tube data sheet, to avoid serious shortening
of tube life and drift of characteristics, particularly at CCS conditions.

Some oxide-coated cathodes can have emission characteristics
that provide sufficient electrons to sustain tube operation
even if filament power is removed, if the plate is running **very**
hot when turning off the filament.

73/

Karl-Arne Markstrom
SM0AOM

kam@stoa.mobile.telia.se

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: ARONGV@aol.com
Subject: Schematic Needed
Message-ID: <970402165855_705646907@emout20.mail.aol.com>

Hi Gang:

Second try at sending this.

Sometimes when you land a rare BA, you almost wish you hadn't. Like especially when you can't get a manual or a schematic. That's when TLC turns into "tough love."

Anyway I have an RME 303 transmitter coming. I understand this rig was built by Globe with and/or for RME.

Can anyone give me some background? And is there a schematic out there some place?

Thanks for the help.

Ron W00IZ Kansas City

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Bill Richarz <bill.richarz@transprt.com>
Subject: Scope transformer & Collins stuff
Message-ID: <199704030502.FAA16637@sco.theporch.com>

This appears to be a scope transformer. Is GE TF4RX02HA.
Prim. 109, 115, 120, 125, 132 V@ 60cps. Sec. 1350, 1250, 1125,
1000V @ .015 Amp.

Collins 30L-1 Meter without glass.

Collins 312B-5 Front panel eustcheon. Slightly scratched.

Make an offer including shipping, so I can get these things
out of my way. Past favors, will ship free.

Thanks, de Bill, N4DH

```
=====
Bill Richarz <N4DH> ex WA4VAF      | Internet: bill.richarz@transprt.com
10035 Little Creek Rd.             | Packet: N4DH@W4BFB.#CLT.NC.USA.NA
Charlotte, NC 28227                 | Phone: (704) 545-9368
      HomePage: http://www.transprt.com/public/wricharz/index.htm
=====
```

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: ARONGV@aol.com
Subject: Svetlana 6146
Message-ID: <970403115524_417016320@emout18.mail.aol.com>

Hi Gang:

I'm going to be meeting with the president and VP of Svetlana next week at the National Association of Broadcasters convention in Las Vegas.

I'll ask for the latest poop on their 6146 plans. As well, I might get an update, if they'll tell me, about their version of the 3-500Z. Off the record , I'm told it will run circles around current versions.

There will be 1,200 exhibit booths and a crowd estimated at 100,000. I have to cover the show with my magazines, Television Broadcast and Government Video. Trust me, IT'S NOT FUN IN THE SUN for magazine editors at the NAB!

More after the show.

Ron W00IZ Kansas City

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Jeffrey Herman <jeffreyh@hawaii.edu>
Subject: Svetlana's (future) 6146
Message-ID: <Pine.GS0.3.95q.970402192210.8633I-1000000@uhunix3>

Received the following from a Svet engineer. // Jeff KH2PZ

We are contemplating manufacture of a 6146. It would require development of new tooling, as old tooling is not available to us. The current plan is to develop the tube for mid-1998 or thereafter. If there is room in your amp, suggest you look at our EL509 for retrofit. Or, if you have to stick with 6146s, there are a few NOS tube dealers who can help you.

If you need any more help with Svetlana tubes, please contact us.

Eric Barbour

Svetlana Electron Devices

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997

From: 4CX250B@miavx1.acs.muohio.edu
Subject: Re: SX-28 Black?
Message-ID: <v03007800af681ab9365e@[134.53.5.143]>

>I'd planned to paint my panel with "semi-flat" black (I'd wanted to use
>satin finish, but the only choices I had were flat, semi-flat, and
>gloss).

Rustoleum makes a satin (semigloss) spray paint which I greatly prefer over the semi-flat blacks of other manufacturers. I use it for, e.g., spraying the feet extensions of Collins S-line equipment. It's only disadvantage is that it is slow-drying and thus must be used in a dust-free environment.

Jim Garland W8ZR

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: Harry Vaught <hvaught@worldnet.att.net>
Subject: SX-71 S-meter/AVC
Message-ID: <3343F65E.1E8@worldnet.att.net>

Gang,

At the Dalton, GA hamfest, I picked up an SX-71 (wanted one to go with my Ranger).

It was priced very low compared to what I've seen them posted for here (and even the Dachis book), so I expected the worst. It was complete and original (except for a wart of a 100kc calibrator on the back), and cosmetically only needed cleaning up to be about an 8.5. I got it home, hooked it up, and thought it was dead (Does it work? Why hit's been rebuilt!) until I noticed that I had hooked the speaker up between the 500 and 3.2 ohm terminals. After fixing that, I had a nice hot receiver which was even calibrated right on.

One problem though, the S-meter won't zero. I've been trying to figure out what to check from the schematic, but to my technically unsophisticated eyes, the S-meter circuit is unusual. One terminal goes to the screen grid of the audio output tube, and the other goes to the screen grid of the first mixer. Is this for real? Can I just not trace lines on a schematic? I can't see where this meter ever encounters the AVC bus or any IF amp. If this is the way it really is, how does it work?

I've still got buyer's remorse over not paying 3.467 times as much for the really nice
SX-100 with R-46 I saw there.

Regards,

Harry, KT4AE

--

Harry Vaught, KT4AE
Lawrenceville, Georgia
hvaught@worldnet.att.net

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: BEN NOCK <106312.1035@compuserve.com>
Subject: Sync Vibrs wanted
Message-ID: <199704031225_MC2-13B6-1F6D@compuserve.com>

I am looking for 7 pin, 6 and 12 volt, synchronous vibrators.

Again, if anyone has them or knows of a supply, please let me know.

Cheers. Ben G4BXD

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: "Jim Berry" <basalop@eskimo.com>
Subject: Thanks for shipping help
Message-ID: <199704030639.WAA13084@mail.eskimo.com>

Thanks everyone for taking the time to suggest the various ways I might go about getting a 100 lb radio shipped from Florida to up here near Seattle.

I sure would like to have the receiver (RA0) but I have, more or less, given up on the idea. The cost of the radio. \$165 at todays prices is probably not all that bad but packaging and shipping brings the price to over \$300. Probably a deal these days, but hard for me to accept when it seems like only a few years ago you could buy one locally for \$20.

I still have to send off some personal messages to folks who gave me info on the RA0. Also sent requests for info that I happened to come across. One of these days you will be flooded with info on what I have come up with. Much will be as I received it and you can go through it and glean out the good stuff.

Anyhow, I still want one of those monsters. I also have come across

a couple Rangers and NC-300 or 303 receivers. I will let the group know when they are actually in my possession. In the mean time, if anyone of you happen to be heading in this direction from Ft Laurderdale, have room in the trunk for some ballast, get in touch with me HI.

73 Jim

Jim Berry K7SLI. QTH: Marysville, Wa (Near Seattle)
Email: basalop@eskimo.com FAX: 360-659-1360
Snail Mail: 5318 142nd PL NE Marysville, Wa 98271

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Rodger Singley <rbsing1@rs6000.cmp.ilstu.edu>
Subject: re: The beer gets all salty from tears
Message-ID: <9704021855.AA65182@rs6000.cmp.ilstu.edu>

Bobbi,

I guess we didn't hear each others CQ's. I spent a fair amount of time CQing on 3.58 before moving to 7.05 (although I admit one or two of those CQ's may have not gone over the air, I am using an old straight key plugged into my 122 VFO to leave it keyed to get rid of the chirp. I release it during listening and I sometimes forget to re-energize the VFO before keying, good thing I have the "clamped" version of the Viking II-got to get a 4pdt relay to replace my 2pdt unit).

Finally made contact with WD4HHN a little above 7.05 (a 60 year old YL in FL who wasn't using a boat anchor but sends wonderful Morse). One of the more pleasurable short contacts I have had in a while!

Fortunately for me, my BA's provide relaxation from working frustration, I am becoming more and more frustrated with inefficiency-not a good frustration for someone in academe to have! The boat anchors provide some needed relaxation and they are better than coming home and kicking the dog (especially when the dog happens to be Heidi, the large German Shepherd who is too sweet to kick and could take your leg off if you did!).

Bobbi, please stay with your QRP pursuits on the air-it will give the rest of the BA gang a chance to exercise our receivers and our listening skills!

Take care and may today be a better one,
Rodger WQ9E

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: James True <jltrtrue@aristotle.net>
Subject: Re: Timonium
Message-ID: <199704022346.RAA10940@aristotle.net>

Thanks to everyone for the information on Timonium. Probably can't make it this weekend but maybe next year. Guess everyone else will have to cover for me and make sure all those great treasures get a good home.

James True N5ARW E-Mail: jltrtrue@aristotle.net
P.O. Box 13280 Voice: 501-851-8783
Maumelle, AR 72113 Fax: 501-851-8784

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Ho4bart@aol.com
Subject: Re: Tube type 958-A lore
Message-ID: <970402100314_479906707@emout10.mail.aol.com>

In a message dated 97-04-01 15:38:20 EST, carruth@swbell.net (Lenox Carruth) writes:

<< World War II cavity magnetrons operated with no filament voltage. It was only used for starting.
-- >>

so they ran hot, which maintained emission? hue

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: dr.electron@juno.com
Subject: RE: Variac Wiring
Message-ID: <19970403.061052.10278.0.dr.electron@juno.com>

Ray;
Here is how the Variac's I have are configured.

Terminals 4 to 2 are 140 Volt winding.

Terminals 1 and 5 are taps.

Terminal 3 is sliding contact.

Full CCW rotation puts T3 at T4.

Full CW rotation puts T3 at T2. Therefore:

Connect T4 to input & output neutral (white)

Connect T2 to hot input lead (black)

Connect T3 slider to output hot receptacle contact (red)

Connect input & output ground wires (green) to housing case,
isolated from neutral wiring.

This should produce the variable 0 to 120 V output.

If 140 V output is desired, use T 1 rather than T 2 for power input connection.

Someone please proof check this. I think it's correct but models vary.

Regards, Rich/

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Ray Allen,W2KBR" <raallen@erols.com>
Subject: Variac wiring
Message-ID: <33440B90.58CF@erols.com>

Group: Thanks to all for the sanity check, and especially to:
Bob Rolfness, Mike Maloney and Dave Nance...73 Ray W2KBR/3

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Mike Sanders <k0az@i1.net>
Subject: Visit to W0RMX and EM46 on 6 meters
Message-ID: <3.0.16.19970402193819.2d370794@i1.net>

Greetings All, I am posting this to both boatanchors and six-list since it kind of melds together. Also I am way behind, whipped and will be brief. Had to visit old friend and BA guy W0RMX today on business. While on the way in and out I screamed every few minutes on 50.125 ssb from EM46 but not a single signal was heard. Did not expect anything this time of year but hoped for some weird propagation so as to give out the grid to those who needed this somewhat rare one. Anyway I tried but

no luck. Will do it again in a couple weeks when we go back to see Gene. The good news is Gene is well and kickin pretty high. I did not take a great deal of time looking at his Glob King 500B. I didn't want to get sick. Tried to look at the NC300 but it was so clean I was getting a bit queezy lookin at it. Moving on I thought I was ok checking out the Valiant II but it was way over a 9 on the 10 scale. Very glad he got that old EFJ Desk KW outta there before I showed up today. A guy can only take so much. Someday they will have a telethon over a long weekend on PBS for BA jealousitus. A cure needs to be found.

Genes place is on a hill overlooking lots of other hills. Out in the middle of nowhere he can run that Ancient Modulation on any band he wants and suffer no neighbor abuse. He has no neighbors. (Wish on)

All in all a super trip. Getting to visit an old friend and seeing some of the finest examples of several BAs was the tops. The location gave me food for day dreaming for a long time to come. Lots of other stuff but too tired to inventory here. Gene has maybe a half dozen differant operating positions around his house. All fully functional. The one spot is in the living room and next to floor to ceiling doors and windows that lookout onto a covered porch that looks for miles and miles of nothing but Ozark "mountains". Other side is the fire place. Dream on.

73, Mike K0AZ

"This is Kilowatt Zeero Alpha Zulu Mobile in Echo Mary Forty Six"

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: kb5wwwo@juno.com (George Folse)
Subject: Wanted SB 640
Message-ID: <19970402.190001.5071.1.kb5wwwo@juno.com>

Hello All,

I am looking for a Heath SB 640 in good condition, working, with manual.

Thanks,

George Folse KB5WWO kb5wwwo@juno.com
630 Dolhonde St.
Gretna,La.70053
504-362-1896 ph/fax
Collector of Heathkit,EF Johnson,and Atwater Kent AMI#937

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: BEN NOCK <106312.1035@compuserve.com>
Subject: War dates
Message-ID: <199704021804_MC2-13AE-6C09@compuserve.com>

Someone wrote:

> As a side point, note that even today, 50+ years after Korea, the
> motto used by the Army as it draws down in size while supposedly
> maintaining it's readiness is, "No more Task Force Smiths!".

Now I know some of us have different dates for WWI and WWII, but
I thought "Korea" was June 25th 1950, NK goes into SK,
till July 27th 53, armistice signed.

So really, 44+ years !!

Cheers, :-) Ben G4BXD.
MILITARY WIRELESS IN THE MIDLANDS

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: Nathalie Guibert <nguibert@middletown.total.net>
Subject: Western Elec. Tubes
Message-ID: <1.5.4.16.19800103105828.1c2f7c0e@middletown.total.net>

Bonjour
My cup runneth over after the response that I
had from you fellow Boatanchormen. The only
other problem that I have is to keep "She who
must be obeyd" in the dark about the game.
Encore une fois Merci, Merci.
Once again Thanks, Thanks.
A bientot
Andre Guibert

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: Nathalie Guibert <nguibert@middletown.total.net>
Subject: Western Electric Tubes FS
Message-ID: <1.5.4.16.19800103111154.1c2fdebe@middletown.total.net>

Bonjour
Quite curious as to the prices for the following
Western Electric (Slashed Western) tubes,
pre 1970. Some are brand new, in original boxes
such as two 300B, here goes.

13- 101F
1 - 102D
7 - 102F
5 - 122A
2 - 272A

3 - 274A
3 - 300B (two in original boxes)
1 - 311A
2 - 313C
7 - 338A
7 - 350A
1 - 352A

A Bientot
Andre Guibert

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: David Prince <davprin@gil.com.au>
Subject: Re: What the hell is a Fullerphone?
Message-ID: <33423D8E.4375@gil.com.au>

Jerry Proc wrote:

>

> That's exactly what it is - a WW1 field telephone. Someone posted information about it a long time ago to the BA group and I turned into into story for my radio club newsletter . Will post it to my Web page and give out the URL.

>

G'day Gang,

Fullerphones were not limited to WW1. They were made in various versions right up to and including WW2 (Fullerphone Mk.IV). I have a couple of Mk.IV's in my collection. They were actually a Field Telegraph set in that they did not have speech facilities.

--

Dave Prince
davprin@gil.com.au

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Ray Allen,W2KBR" <raallen@erols.com>
Subject: Wiring Check/meter
Message-ID: <3343BFCC.64AD@erols.com>

Group: Picked up a Variac and need sanity check on wiring. Data sheet indicates Terminal 1 & 4 for input (120/60cy) and 1 & 3 output. Now if'n I use typical 120 Black(HOT) and white(Neutral), Green (ground), the terminal 1 is common to both Input/output: White to Terminal 1?? and Black to terminal 4, and whatever color to terminal 3. Just asking!!

And wud anybody have a meter to provide indication of Output V.??
Many thanks.
Ray, W2KBR/3

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: "Douglas M. Gordon" <dmgordon@electriciti.com>
Subject: WTB T-15/ARC-5 N.I.B.
Message-ID: <1.5.4.16.19970403095532.24b71338@electriciti.com>

Hello All,

My friend A.J. Link is looking for a "mint" T-15/ARC-5 for his collection.
He will pay BIG \$\$\$ for the perfect one. Please call him during the day at
(619) 438-4420 if you have or know of such an animal. Thanks for reading this.

73,

Doug K6PUN
Carlsbad, CA

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: CADV16@aol.com
Subject: WTB: 575A & 4-400 Tubes
Message-ID: <970403113224_-669298524@emout14.mail.aol.com>

Looking to purchase (2) 575A rectifier tubes and (4) 4-400A or 4-400C power
tetrodes for restoration project. Please advise price and availability.
Contact: Elliott / K7ER via email at: CADV16@AOL.COM Thank You!

From boatanchors@sco.theporch.com Thu Apr 3 16:33:06 1997
From: k7sz@juno.com (Rich H Arland)
Subject: WTB: Yaesu SSB filter
Message-ID: <19970403.222001.6799.0.K7SZ@juno.com>

gang:

Just acquired a 20 year old Yaesu FT-301S HF QRP rig. I am in need of the
XF-92A SSB filter for this radio. I seem to remember that this filter
also fit several of the other Yaesu rigs of the 1970s.

73 es tnx.

rich K7SZ

From boatanchors@sco.theporch.com Thu Apr 3 00:43:10 1997
From: klaudon@pica.army.mil
Subject: Yes, it was an April Fools...
Message-ID: <34290230.1627@pica.army.mil>

Today's date : 2 April 1997

Fellow BA readers:

Yes, my post yesterday re: mil hardened Heathkit 6'ers for \$1250, was indeed a spoof. Trouble is, I should have made it just a bit less realistic, so that it would have been obvious! I figured that the idea of a 3 tube (something like that) superregen radio being fielded by the US military in the modern age, and being dubbed the "Tonkin Gulf Lunchbox", a la "Benton Harbor Lunchbox", would give away the joke! The ridiculous price per unit was just meant to be icing on the cake. Hmm, maybe I shoulda said they cost 5 grand apiece!

Well, anyway, some good responses were generated (as I'd hoped that there would be), including a REAL story by my fellow fed Ed Zeranski, about some REAL lunchbox radios that nearly matched my fictitious ones! I was even going to include the detail about the radios having the Heath PTT mike, but thought that would give it away as a fake. His radios HAD the civilian Moto PTT!

Truth is often stranger than fiction.

73 to all,
Kalman W2ES
klaudon@pica.army.mil